

# Annex I

## Acronyms and Abbreviations

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### –A–

AAAV – Advanced Amphibious Assault Vehicle  
AAR – after action report  
ACAA – Automatic Chemical Agent Alarm  
ACADA - Automatic Chemical Agent Detector  
ACC – Air Combat Command  
ACES – Air Force Command Exercise System  
Ach - acetylcholine  
ACOM – Atlantic Command  
ACPLA - agent containing particle per liter of air  
ACPM - Aircrew Protective Mask  
ACTD - Advanced Concept Technology Demonstration  
ADS - Area Detection System  
AERP - Aircrew Eye/Respiratory Protection  
AFMAN – Air Force Manual  
AFMS – Air Force Medical Service  
AFRRI - Armed Forces Radiobiology Research Institute  
AG - Australia Group  
AICPS - Advanced Integrated Collective Protective System  
AIDET - Aircraft Interior Detector  
AIT – Aeromedical Isolation Team  
ALAD – Automatic Liquid Agent Detector  
ALSA – Air Land Sea Application Center  
AMAD - Automatic Mustard Agent Detector  
AMC - U.S. Army Materiel Command  
AMEDDC&S - Army Medical Department Center and School  
ANCOC – Advanced NCO Course  
AN/VDR-2 - Portable dose-rate gamma/beta radiation meter  
AN/VDR-13 - Compact, digital whole body radiation meter  
APODS – Aerial Port of Debarkation  
ARTEP – Army Training and Exercise Plan  
ASA(RDA) - Assistant Secretary of the Army for Research, Development and Acquisition  
ASBREM - Armed Services Biomedical Research Evaluation and Management  
ASCC – Air Standardization Coordinating Committee

ASD(HA) - Assistant Secretary of Defense for Health Affairs  
ATD - Advanced Technology Demonstration  
AT/FP – Antiterrorism Force Protection  
ATG – Airfloat Training Group  
ATH – Air Transportable Hospital  
ATP - Adenosine Triphosphate  
ATSD(NCB) - Assistant to the Secretary of Defense for Nuclear and Chemical and Biological Defense Programs  
ATSO – Ability to Survive and Operate

### –B–

*B. anthracis* - *Bacillus anthracis*  
BCTP – Battle Command Training Center  
BD - biological detector (also, biological defense)  
BDO – Battledress Overgarment  
BDU – Battledress Uniform  
BES - Budget Estimate Submission  
BIDS - Biological Integrated Detection System  
BNCOC - Basic Non-Commissioned Officer Course  
BOG - Board of Governors  
BoNT - Botulinum Neurotoxin  
BoNT/A - Botulinum Neurotoxin A  
BoNT/B - Botulinum Neurotoxin B  
BRP – Basic Research Plan  
BTN – below the neck  
BuChE - butyrylcholinesterase  
BVO/GVO – black vinyl overboot/green vinyl overboot  
BW - biological warfare  
BWC - Biological Weapons Convention

### –C–

C<sup>4</sup>I – command, control, communication, computer, and intelligence  
CA – Commodity Area  
CAA – Center for Army Analysis  
CA/D – Chemical Activity/Depot  
CaE - carboxylesterase  
CAM – Chemical Agent Monitor  
CANA - Convulsant Antidote, Nerve Agent autoinjector

CANE - Combined Arms in a Nuclear/Chemical Environment  
CAPDS - Chemical Agent Point Detection System  
CARDS- Chemical Agent Remote Detection System  
CASTFOREM - Combined Arms and Support Task Force Evaluation Model  
CatOx - catalytic oxidation  
CAWM - Chemical Agent Water Monitor  
CB - chemical and biological (also C/B)  
CBAT - Chemical Biological Augmentation Team  
CBAWM - CB Agent Water Monitor  
CBD - chemical and biological defense  
CBDCOM - Chemical Biological Defense Command (U.S. Army)  
CBDP - Chemical/Biological Defense Program  
CBIRF - Chemical Biological Incident Response Force  
CBM&S - Chemical/Biological Modeling & Simulation  
CBMS - CB mass spectrometer  
CBPS- CB Protective Shelter  
CBR - chemical, biological, and radiological  
CBR-D - chemical, biological, radiological defense  
C/B-RRT - Chemical Biological Rapid Response Team  
CBSD - Chemical Biological Stand-off Detector  
CBW - chemical and biological warfare  
CCD - Camouflage, Concealment, and Deception  
CDC - Centers for Disease Control and Prevention  
CD-ROM - Compact Disk - Read Only Memory  
CDTF - Chemical Defense Training Facility (at the U.S. Army Chemical School)  
CEM - Concept Evaluation Model  
CENTCOM - Central Command  
CFM - cubic feet per minute  
CFR - Code of Federal Regulations  
CHAMP - Chemically/biologically Hardened Air Management Plant  
CHATH - Chemically/Biologically Hardened Air Transportable Hospital  
ChE - cholinesterase  
CINC - Commander - in - Chief  
CINCCENT - Commander-in-Chief Central Command  
CINCPAC - Commander-in-Chief Pacific Command  
CJCS - Chairman of the Joint Chief of Staff  
CM - Chloroform-Methanol (also, consequence management)  
CMR - Chloroform-Methanol Residue  
CMTC - Combat Maneuver Training Center  
CNS - Central Nervous System  
COBC - Chemical Officer Basic Course

COMMZ - Communications Zone  
COMPTUEX - Composite Training Unit Exercise  
CONOPS - Concept of Operations  
CONUS - continental United States  
COTS - Commercial Off-the-Shelf  
CP - chemical protective (also, collective protection, or counterproliferation)  
CPE - Collective Protection Equipment  
CPO - Chemical Protective Overgarment  
CPRC - Counterproliferation Review Council  
CPS - Collective Protection System  
CPU - Chemical Protective Undergarment  
CRG - Compliance Review Group  
CSST - Chemical Casualty Site Team  
CTC - Combat Training Center  
CTR - Cooperative Threat Reduction  
CVC - Combat Vehicle Crewmen  
CVIP - Chemical Vision Implementation Plan  
CW - Chemical Warfare  
CWC - Chemical Weapons Convention  
CWCIWG - Chemical Weapons Convention Implementation Working Group  
CWDD - Chemical Warfare Directional Detector (AN/KAS-1A)  
CWICS - Chemical Weapons Interior Compartment System

**-D-**

DAB - Defense Acquisition Board  
DAP - Decontaminating Apparatus Portable  
DARPA - Defense Advanced Research Projects Agency  
DATSD (CP/CBD) - Deputy Assistant to the Secretary of Defense for Counterproliferation and Chemical/Biological Defense  
DCSOPS - U.S. Army Deputy Chief of Staff for Operations  
DDR&E - Director, Defense Research and Engineering  
DEPMEDS - CB Protected Deployable Medical Systems  
DEST - Domestic Emergency Response Team  
DLA - Defense Logistics Agency  
DNA - Deoxyribonucleic Acid  
DoD - Department of Defense  
DoE - Department of Energy  
DPE - Demilitarization Protective Ensemble  
DPG - Defense Planning Guidance; Also Dugway Proving Grounds  
DRB - Defense Review Board (also, Defense Resources Board, or Division Ready Brigade)  
DRI - Defense Reform Initiative  
DS2 - Decontamination Solution 2  
DSCP - Defense Supply Center Philadelphia

DSO – Defense Sciences Office  
 DTAP – Defense Technology Area Plan  
 DTIRP - Defense Technical Inspection Readiness Program  
 DTLOM – Doctrine, Training, Leader-Development, Organization, and Material Requirements  
 DTO - Defense Technology Objective  
 DT/OT – developmental/operational testing  
 DTRA - Defense Threat Reduction Agency  
 DTRA(CB) - Defense Threat Reduction Agency's Chemical and Biological Defense Directorate

–E–

*E. coli* - *Escherichia coli*  
 ECV – Expanded Capacity Vehicle  
 ED – ethyl dichlorarsine  
 EEE - Eastern Equine Encephalomyelitis  
 EEG – electroencephalographic  
 ELISA - Enzyme-Linked Immunosorbent Assay  
 EMD – Engineering and Manufacturing Development  
 ENCOMPASS – Enhanced Consequence Management Planning and Support System  
 EOD - Explosive Ordnance Disposal  
 ERDEC - Edgewood Research, Development, and Engineering Center (U.S. Army)  
 EUCOM – European Command

–F–

F1 - Fraction 1  
 F1-V - Fraction 1 - “V” Antigen  
 Fab - Fragment Antigen Binding  
 FAR – Federal Acquisition Regulations  
 Fc - Fragment Crystallizable  
 FCBC – Field Management of Chemical and Biological Casualties Course  
 FDA - Food and Drug Administration  
 FDTE – Force Development Testing and Experimentation  
 FEST – Foreign Emergency Response Team  
 FLEETEX – Fleet Exercise  
 FM - Field Manual  
 FORCEM – Force Evaluation Model  
 FR – flame resistance  
 FUE - First Unit Equipped  
 FY - fiscal year  
 FY99 - Fiscal Year 1999  
 FYDP - Future Years Defense Plan

–G–

GA – tabun, a nerve agent  
 GAO – General Accounting Office  
 GB - sarin , a nerve agent

GD - soman, a nerve agent  
 GF – a nerve agent  
 GMP - Good Manufacturing Practice  
 GPFU - Gas Particulate Filter Unit

–H–

HAZWARN – NBC Hazardous Warning System  
 HAZWOPR – Hazardous Waste Operations and Emergency Response  
 hBuChE - Human Butrylcholinesterase  
 hCaE - Human Carboxylesterase  
 HD - sulfur mustard, a blister agent  
 HEPA – high efficiency particulate  
 HHA – Hand Held Immunochromatographic Assays  
 HMMWV - High Mobility Multipurpose Wheeled Vehicle  
 HN – Host Nation  
 HSC/YA – Human Systems Program Office  
 HTA – high threat area

–I–

IBAD - Interim Biological Agent Detector  
 IBMC - Industrial Base Maintenance Contract  
 ICAD – Individual Chemical Agent Detector  
 ICAM - Improved Chemical Agent Detector  
 ICDS - Improved Chemical Detection System  
 IDLH - Immediate Danger to Life and Health  
 IEG – Information Exchange Group  
 IL CBDWS - In-Line Chemical Biological Defense Water System  
 IM - intramuscular  
 IND - Investigational New Drug  
 IP – intraperitoneal  
 IPDS - Improved (chemical) Point Detection System  
 IPE - Individual Protective Equipment  
 IPT – Integrated Product Team  
 IR&D – Independent Research & Development  
 IR-LIDAR – Infrared Light Detection and Ranging  
 IS – Instrumentation System  
 ISD - Individual Soldier Detector  
 ITAP - Improved Toxicological Agent Protective Ensemble  
 ITS – Individual Training Standard  
 IVD - Individual Vapor Detector

–J–

JBPDS - Joint Biological Point Detection System  
 JBREWS - Joint Biological Remote Early Warning System  
 JBSDS – Joint Biological Standoff Detection System  
 JBUD - Joint Biological Universal Detector

JCAD – Joint Chemical Agent Detector  
JCBAWM – Joint Chemical Biological Agent Water Monitor  
JCBUD – Joint Chemical and Biological Universal Detector  
JCHEMRATES - Joint Chemical Defense Equipment Consumption Rates  
JCPE – Joint Collective Protection Equipment  
JCS - Joint Chiefs of Staff  
JFIRE - Joint CB Protective Firefighter Suit  
JFOC - Joint Future Operational Capabilities  
JFT – Joint Field Trail  
JLAS – Joint Land, Aerospace, and Sea Simulation  
JMAR – Joint Medical Asset Repository  
JMNS - Joint Mission Need Statement  
JMRR – Joint Monthly Readiness Review  
JNBCDB - Joint NBC Defense Board  
JORD - Joint Operational Requirements Document  
JPACE - Joint Protective Aircrew Ensemble  
JPO-BD - Joint Program Office for Biological Defense  
JRTC – Joint Readiness Training Center  
JSA - Joint Service Agreement  
JSAM - Joint Service Aviation Mask  
JSCBIS - Joint Service Chemical Biological Information System  
JSGPM - Joint Service General Purpose Mask  
JSIG - Joint Service Integration Group  
JSIMS – Joint Simulation System  
JSLIST - Joint Service Lightweight Integrated Technology (individual protection)  
JSLNBCRS – Joint Service Light NBC Reconnaissance System  
JSLSCAD – Joint Service Lightweight Stand-off Chemical Agent Detector  
JSMG - Joint Service Materiel Group  
JSNBCRS – Joint Service NBC Reconnaissance System  
JSTPCBD - Joint Science and Technology Panel for Chemical/Biological Defense  
JSWILD - Joint Service Warning and Identification LIDAR Detector  
JTASC – Joint Training and Analysis Center  
JTC - Joint Training Council  
JTCG - Joint Technology Coordinating Group  
JTCOPS – Joint Transportable CP System  
JTF – Joint Task Force  
JTPCBD – Joint Technology Panel for Chemical and Biological Defense  
JVAP – Joint Vaccine Acquisition Program  
JWARN - Joint Warning and Reporting Network  
JWFC – Joint Warfighting Center  
JWSTP – Joint Warfighting S & T Plan

–L–

L - lewisite, a vesicant agent  
LAM - Louisiana Maneuvers  
LCBPG - Lightweight CB Protective Garment  
LD<sub>50</sub> - Median Lethal Dose  
LDS - Lightweight Decontamination System  
LHA – general purpose amphibious assault ship  
LHD – general purpose amphibious assault ship (with internal dock)  
LIDAR - Light Detection And Ranging  
LLC – limited liability corporation  
LMS – Lightweight Multipurpose Shelter  
LNBCRS – Light NBC Reconnaissance System  
LRBSDS - Long-Range Biological Stand-off Detection System  
LSCAD - Lightweight Stand-off Chemical Agent Detector  
LSCD - Laser Stand-off Chemical Detector  
LSD – landing ship, dock  
LSP - Logistics Support Plan  
LWRS - Lightweight Reconnaissance System

–M–

M&S - Modeling and Simulation  
M&S CA – Modeling and Simulation Commodity Area  
M&S R&D – Modeling and Simulation Research and Development  
MAGTF – Marine Air Ground Task Force  
MAJCOM - Major Command  
MANAA - Medical Aerosolized Nerve Agent Antidote  
MANSCEN – Maneuver Support Center  
MBDRP - Medical Biological Defense Research Program  
MBPI - Michigan Biologic Products Institute  
MCBAT – National Medical Chem-Bio Advisory Team  
MCBC – Management of Chemical and Biological Casualties Course  
MCBDRP - Medical Chemical and Biological Defense Research Program  
MCDRP - Medical Chemical Defense Research Program  
MCPE – Modular Collective Protection System  
MCU-2A/P - a chemical protective mask  
MCWP – Marine Corps Warfighting Publication  
MD – methyl dichlorarsine  
MDS - Modular Decontamination System  
MED – Medical  
MEIR – Medical Effects of Ionizing Radiation  
METL - Mission Essential Task List

*metL*, *thrA* – methionine biosynthesis  
 MEU – Marine Expeditionary Unit  
 MFR - Multi-Function Radiac Set  
 MICAD - Multipurpose Integrated Chemical Agent Detector  
 MIL STD – Military Standard  
 MLRS – Multiple Launch Rocket System  
 MNDRP - Medical Nuclear Defense Research Program  
 MNS - Mission Needs Statement  
 MOP - Memorandum of Policy  
 MOPP - Mission Oriented Protective Posture  
 MOS - Military Occupational Specialist  
 MPH – miles per hour  
 MPS – Mission Performance Standard (also, Multipurpose Protective Sock)  
 MPSP - Medical Program Sub-Panel  
 MRMC – Medical Research and Materiel Command  
 MTW – Major Theater War  
 MULO - Multi-purpose Overboot  
*murE* – murein biosynthesis

–N–

NAADS – Nerve Agent Antidote Delivery System  
 NAAG – NATO Army Armaments Group  
 NAAK – Nerve Agent Antidote Kit  
 NAAS - Nerve Agent Antidote System  
 NAPP - Nerve Agent Pyridostigmine Pretreatment  
 NATO - North Atlantic Treaty Organization  
 NBC - Nuclear, Biological, and Chemical  
 NBCDT – NBC Defense Training  
 NBC-E – nuclear, biological, and chemical-environment  
 NBCRS - NBC Reconnaissance System (Fox Vehicle)  
 NBCWP – NBC Defense Interservice Working Party  
 NCO - Non-Commissioned Officer  
 NDA - New Drug Application  
 NDI - Non-Developmental Item  
 NEPMU – Navy Environmental and Preventative Medicine Unit  
 NFPA – National Fire Protection Agency  
 NICP - National Inventory Control Points  
 NIEX - No-Notice Interoperability Exercise  
 NIH – National Institute of Health  
 NO – nitric oxide  
 NSN - National Stock Number  
 NTC – National Training Center

–O–

OAC – Officer Advance Course  
 OBC – Officer Basic Course

OG - Overgarment  
 O&M – Operations & Maintenance  
 OPCW - Organization for the Prohibition of Chemical Weapons (in The Hague)  
 OPR - Office of Primary Responsibility  
 ORD - Operational Requirements Document  
 OSD - Office of the Secretary of Defense

–P–

P3I - Pre-Planned Program Improvement  
 PACAF – Pacific Command  
 PACOM – Pacific Command  
 PAM – Preventative and Aerospace Medicine  
 PATS - Protective Assessment Test System  
 PB - President’s Budget  
 PCPS – Portable Collective Protection System  
 PCR - polymerase chain reaction  
 PD – phenyl dichlorarsine  
 PDDA - Power Driven Decontamination Apparatus  
 PDM – Program Decision Memorandum  
 PDRR - Program Definition and Risk Reduction  
 PE – Program Element  
 PF - Positive Force Exercise  
 PfP – Partnership for Peace  
 PICS - Personal Ice Cooling System  
 PL 130-160 - Public Law 103-160, The National Defense Authorization Act of FY94  
 PMCD – Program Manager for Chemical Demilitarization  
 POL – petroleum, oil, and lubricant  
 POM - Program Objectives Memorandum  
 PQS – Personnel Qualification  
 PR - Positive Response Exercise  
 PRG – Program Review Group  
 PROFIS – Medical NBC Professional Filler Course  
 PSA – Pressure Swing Adsorption

–Q–

QDR - Quadrennial Review  
 QNFT – quantitative fit testing  
 QRR - Qualitative Research Requirements  
 OSM3 – oximeter instrument  
 QSTAG - Quadripartite Standardization Agreement  
 QWG – Quadripartite Working Group

–R–

RBC-AchE – red blood cell acetylcholinesterase  
 R&D – Research and Development  
 RDA - Research, Development, and Acquisition  
 RDTE (Also, RDT&E) - Research, Development, Test and Evaluation  
 RMC - Regional Medical Commands

RSCAAL - Remote Sensing Chemical Agent Alarm  
RTP – Readiness Training Plan  
rTSP - Reactive Topical Skin Protectant  
RW – radiological/nuclear warfare

**–S–**

SACPS - Selected Area Collective Protection System  
SAG – Study Advisory Group  
SALAD - Shipboard Automatic Liquid Agent Detector  
Saratoga - a CB protective overgarment  
SAT – Systems Approach to Training  
SAW - Surface Acoustic Wave  
SBCCOM- Solider, Biological and Chemical Command (U.S. Army)  
SCALP - Suit Contamination Avoidance Liquid Protection  
SCAMP - Shipboard Chemical Agent Monitor Portable  
SCPE – Simplified Collective Protective Equipment  
SCUD – surface – to –surface missile system  
SD - Stand-off Detector  
SD/ASM - Stand-off Detector for Armor System Modernization  
SDK – Skin Decontamination Kit  
SE – staphylococcal enterotoxins  
SEA - Staphylococcal Enterotoxin A  
SEB - Staphylococcal Enterotoxin B  
SMART-CB – Special Medical Augmentation Response Team-Chemical/Biological  
SMART-PM – Special Medical Augmentation Response Team-Preventative Medicine  
SNCO – Staff-Noncommissioned Officer  
SOF - Special Operations Forces  
SOFCAS - Special Operation Forces Chemical Agent Detector  
SOI – School of Infantry  
SO/LIC – Special Operations and Low Intensity Conflict  
SORTS - Joint Status of Resources and Training System  
SPOD – Seaport of Debarkation  
SRT - Specialty Response Team  
S&T – Science & Technology  
STANAG – standard agreement  
STB - Supertropical Bleach  
STEPO - Self-Contained Toxic Environment Protective Outfit  
STEPO-I - Interim Self-Contained Toxic Environment Protective Outfit

STO – Science Technology Objective  
STRAC – Standards in Training Commission  
STS – Specialty Training Standard

**–T–**

TAA – Total Army Analysis  
TACWAR – Tactical Warfare  
TAP – Toxicological Agent Protective boots and gloves  
TAV - Total Asset Visibility  
TB - Technical Bulletin  
TBM – Transportation of Biomedical Materials  
TDA – table of distribution and allowances  
TED – Troop Equivalent Doses  
TEU – Technical Escort Unit  
TIM – toxic industrial material  
TSG – The Surgeon General  
TSP - Topical Skin Protectant

**–U–**

UAV – Unmanned Aerial Vehicle  
UDP – Unit Deployment Program  
UN – United Nations  
UNSCOM – United Nations Special Commission  
USA – United States Army  
USACHPPM – United States Army Medical Research and Materiel Command  
USACMLS – US Army Chemical School  
USAF – United States Air Force  
USAMEDDC&S – U.S. Army Medical Department Center and School  
USAMMA – U.S. Army Medical Materiel Agency  
USAMMDA – U.S. Army Medical Materiel Development Activity  
USAMRICD - U.S. Army Medical Research Institute of Chemical Defense  
USAMRIID - U.S. Army Medical Research Institute of Infectious Diseases  
USAMRMC - U.S. Army Medical Research and Materiel Command  
USANCA - United States Army Nuclear and Chemical Agency  
USAR – US Army Reserve  
USC – United States code  
USD(A&T) - Undersecretary of Defense (Acquisition and Technology)  
USG – United States Government  
USMC - United States Marines Corps  
USN – United States Navy  
USUHS - Uniformed Services University of the Health Sciences  
UTC – Unit Type Code

**-V-**

VCA - Voice Communication Adapter  
VEE - Venezuelan equine encephalomyelitis  
VIC – Vector – In –Command  
VLSTRACK – Vapor, Liquid, and Solid Tracking  
Model  
VPU - Vapor Protective Undergarment  
VTC – Video Teleconference  
V&V – verification and validation  
VVS – Vehicles, Vans and Shelters

VX - a nerve agent

**-W-**

WCF - Working Capital Fund  
WEE - Western Equine Encephalomyelitis  
WG – Working Group  
WMD - weapons of mass destruction  
WRAIR - Walter Reed Army Institute of Research  
WRM – war reserve materiel  
WRSI - War Reserves Secondary Items